

## **ITS Technical Bulletin 189**

### **SYSTEM GENERATED TEMPORARY DATA SETS**

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#### **SYSTEM GENERATED TEMPORARY DATA SETS**

This bulletin pulls together information previously published in various documents regarding handling system generated temporary data sets.

A temporary data set is created and deleted within a job. When defining a temporary data set, you can code the DSNNAME parameter or omit it; if omitted, the system generates a name for the data set. SMS manages temporary data sets.

#### **DUPLICATE TEMPORARY NAMES**

The system generates a qualified name for the temporary data set. The name begins with SYS and includes the job name, the data set name from the DSNNAME parameter, if coded, and other identifying characters.

The system-generated, qualified name for a temporary data set will not be unique under the following conditions:

- \* Steps within a job which create temporary data sets using the same DSN=&&TEMPNAME in more than one step.
- \* Multiple jobs having identical jobnames executing at exactly the same time on more than one CPU.

To ensure that a temporary data set name is unique, do not code a temporary data set name. Allow the system to assign one.

Use DISP=(NEW,DELETE) where possible to delete temporary data sets at the end of the step. DISP=(NEW,PASS) will not delete the data set until the end of the job.

#### **LARGE QUANTITIES OF TEMPORARY SPACE MAY REQUIRE SPECIAL HANDLING**

Some batch jobs require large quantities of temporary space which may not be available at any given time. All users of temporary disk space share the same pool of volumes. If your batch job fails to allocate a temporary data set and receives a B37-04 abend it has exceeded the space available.

Jobs that require large quantities of temporary space may require special handling. In the event your batch job requires additional temporary space the following procedure should resolve the

problem.

1. Contact DAS/ITS Production Support if a volume with additional temporary space is required. Questions regarding temporary data sets may be directed to DAS/ITS Production support at 538-3226.
2. Replace the DSN=&&TEMPNAME parameter in your allocate DD card with a fully qualified data set name. If DSN=&&TEMPNAME was omitted from your JCL, then add a fully qualified data set name to the allocate step. Example:  
DSN=YOUR.DATA.SET.NAME
3. Add a DISP, VOL, and UNIT parameter to the allocate step.  
DISP=(NEW,PASS,DELETE) will delete the data set at job completion. Care should be taken to ensure the final disposition deletes the data set. If the second disposition parameter is not PASS or DELETE a permanent data set will result and DASD charges will accumulate until the data set is deleted.